

STEM FAIR

Project Requirements Checklist

Standards _____

Project Journal _____

Display _____

The primary goal is to promote student use of science, technology, engineering, and mathematics to solve real world problems. Related project objectives include the following: help students understand the difference between an experiment and other types of scientific investigation, learn how to set up an experiment using controls and variables, recognize the need for repetition and replication, and learn how to use appropriate reference materials to support scientific understanding.

Name:

Project Title:

Grade Level:

STANDARDS

(Your grade level standards can be found at cpalms.org)

Science standards

Math standards

Name:

Project Title:

Grade Level:

Question:

As you begin your science or engineering project consider the use of science, engineering, technology, and mathematics:
“Will you design or build something based on your interest?” “Is this something that you can test to solve a problem or answer a question that you would like to know more about?”

Make sure your question:

- ✓ Has a limited problem, be specific
- ✓ Can be answered with an experiment
- ✓ Has measurable results

Name:

Project Title:

Grade Level:

Research: (This will be used to create your hypothesis and develop your experiment. Don't forget to cite your resources.)

Resource 1: _____

Facts Learned: _____

Resource 2: _____

Facts Learned: _____

Resource 3: _____

Facts Learned: _____

Name:

Project Title:

Grade Level:

Hypothesis: (This is what I think the answer to my question will be based on my research.)

Identify the variables (Something that has an effect on an experiment.)

1. Independent variable (What I change)

2. Dependent variable (What I observe)

3. Controlled variable (What I keep the same)

Name:

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Observations: (Keep good records of what you do and what you measure.)

(Repeat the experiment to increase the validity of your results; include additional pages as needed.)

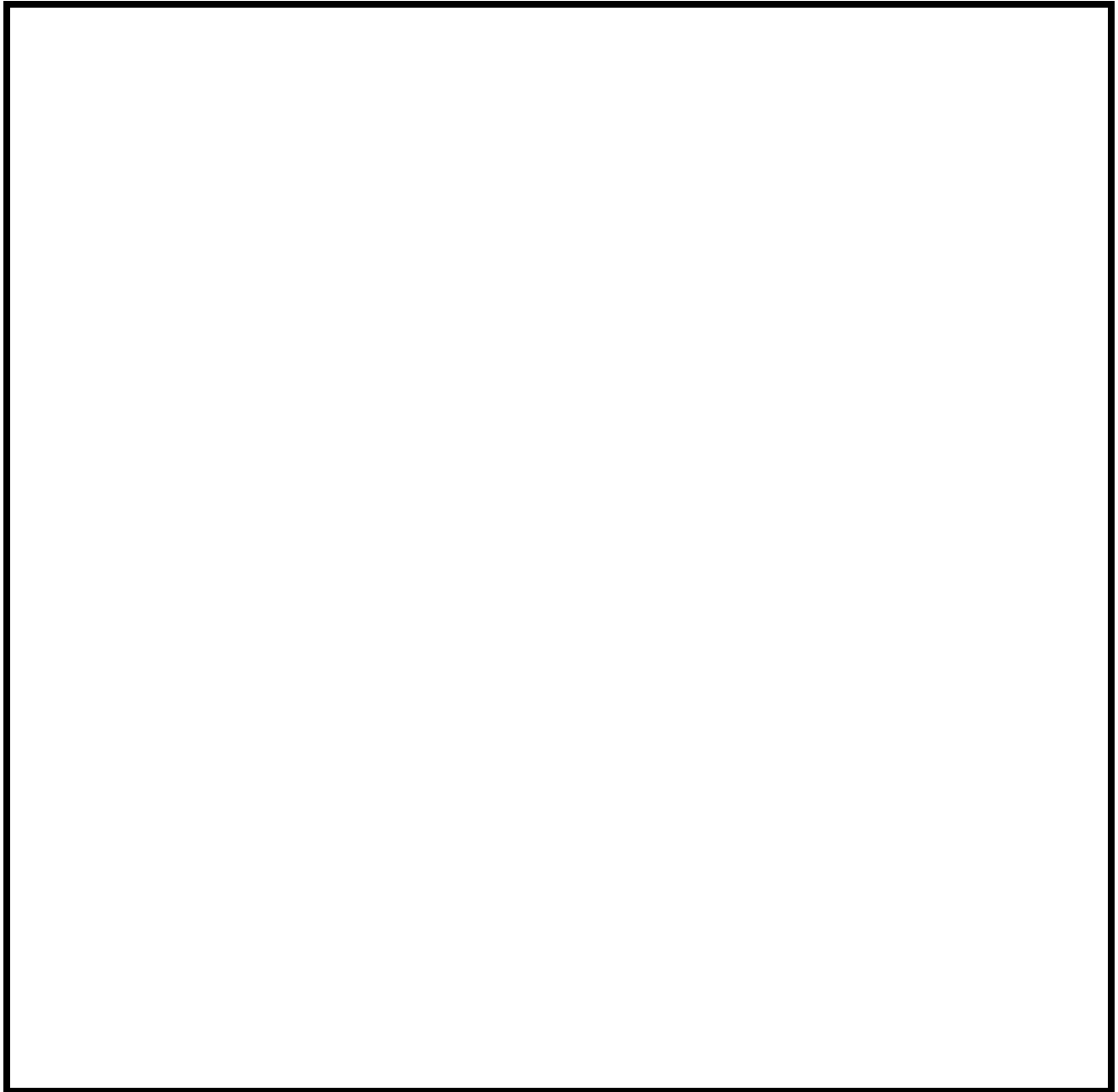
Name:

Project Title:

Grade Level:

Data: Record and display your data using metric units.

(Make diagrams, charts, or graphs and attach here.)

A large, empty rectangular box with a black border, intended for students to draw diagrams, charts, or graphs related to their data collection.

Name:

Project Title:

Grade Level:

Conclusion: (Complete after the experiment.)

My hypothesis was (correct or incorrect) because...

During the course of my project I learned...

I can improve my experiment by...

My work led me to a new question that I would like to investigate...

Name:

Project Title:

Grade Level:

DISPLAY

Please include the following in your project display:

Standards	Hypothesis	Results
Question	Materials	
Research	Procedures	

Laboratory apparatus or Invention (optional)
&
Journal

Name:

Project Title:

Grade Level:

The St. Johns County School District will inspire good character and a passion for lifelong learning in all students, creating educated and caring contributors to the world.

